

Comparison of bovine colostrum whey and defatted bovine colostrum supplementation on piglet post-weaning growth check

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Introduction

BOVINE COLOSTRUM (BC) = Alternative to in-feed antibiotics for the newly-weaned piglet

- High concentrations in: - Growth promoters
- Anti-microbial factors
- Availability in Belgium

PREVIOUS RESULTS

BC whey: ↑ADG, ↑ADFI and ↓FCR
Immuno-modulator

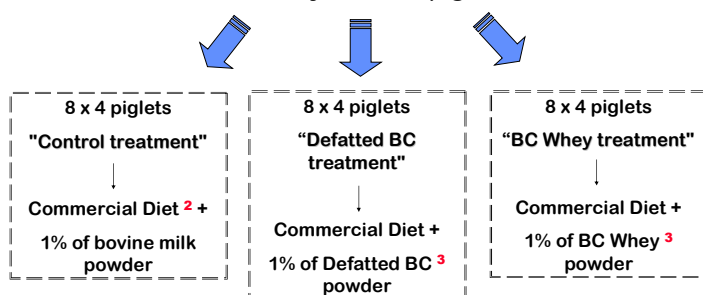
**BUT : MECHANISM of ACTION ?
HIGH PROCESSING COSTS**

→ Comparison of Defatted BC and BC Whey

Material and Methods

Experimental design

96 newly-weaned piglets¹



Measures

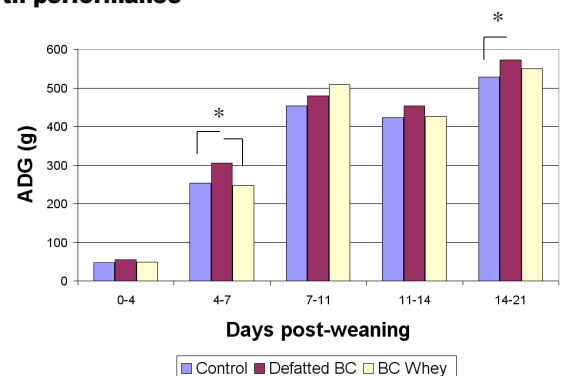
- Individual Weight (n = 32)
- Ingestion of each pen (n = 8)
- Faecal microflora (n = 8) b qPCR: *Escherichia coli*
Lactobacillus spp.

Composition of the BC supplements

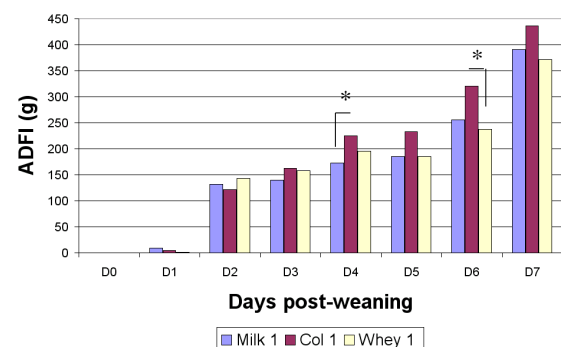
Composition (g/kg DM)	Defatted BC	BC Whey
Crude Protein	765	688
Ash	56.7	72
Lactose	43	0.1
IgG	324	496
Lactoferrin	14.3	10.6
IGF-I	2 750 ng/g	2 500 ng/g
IGF-II	23 ng/g	25 ng/g
Insulin	54 ng/g	< 1 ng/g

Results

Growth performance



Feed intake (Week 1 PW)



Faecal microflora

No differences between the treatments

Supplementation costs

	Defatted BC	BC Whey
Processing	50 €/kg	100 €/kg
Supplementation	1.6 €/piglet	3.2 €/piglet

Conclusion

The Defatted Bovine Colostrum is at least as good as Bovine Colostrum Whey to reduce the piglet post-weaning growth-check

→ Reduction by 50% of the treatment costs

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